BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Repiar and Maintenance of Roads and Drains in Ward No. 09 (Vidyaranyapura).

Estimated Cost : Rs. 30.00 Lakhs

Head of Account : P-3726 Zonal Public Works - POW Works

Job Code: 009-22-000005

Name of Agency: Sri. Nagoor Lokanadha Reddy, No. Flat No. 102, 1st Floor, No. 02, MSNR, ENCLAVE 2nd Cross, Manorayanapalya, RT Nagar Post, Bangalore - 560032.

Work order No: BBMP/EE/BTP/WO/18/2022-23 D: 22-04-2022.

Measurement Recorded on: 25/4/2022 & 26/4/2022

Sl. No	Description	No.	L	B	D	Qty	Unit
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.						Cum
	For RCC Drains						
	7th A Cross Gurudharshan Layout N/S	1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	6.30	1.00	0.90	5.67	
	7th A Cross Gurudharshan Layout S/S						
		1	15.00	1.00	0.90	13.50	
		1	11.00	1.00	0.90	9.90	
		1	15.00	1.00	0.90	13.50	
		1	8.20	1.00	0.90	7.38	
		1	15.00	1.00	0.90	13.50	
		1	10.30	1.00	0.90	9.27	
	4th A Cross Gurudharshan Layout N/S						
		1	15.00	1.00	0.90	13.50	
		1	5.00	1.00	0.90	4.50	
		1	15.00	1.00	0.90	13.50	
		1	10.00	1.00	0.90	9.00	
		1	15.00	1.00	0.90	13.50	
		1	8.50	1.00	0.90	7.65	
		1	15.00	1.00	0.90	13.50	
		1	10.00	1.00	0.90	9.00	
	3rd Main Venkataswamappa Layout N/S						
		1	15.00	1.00	0.90	13.50	
		1	15.50	1.00	0.90	13.95	
		1	15.00	1.00	0.90	13.50	
		1	14.00	1.00	0.90	12.60	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	8.80	1.00	0.90	7.92	
	2nd Cross Opp Road						
	E/S	1	15.00	1.00	0.90	13.50	
		1	10.00	1.00	0.90	9.00	
	W/S						

ASSISTANT EXECUTIVE ENGINEER Vidyaranyapura Bruhath Bangalore

Sl. No	Description	No.	L	B	D	Qty	Unit
		1	15.00	1.00	0.90	13.50	
		1	10.00	1.00	0.90	9.00	
	2nd Cross Opp Road						
	W/S	1	15.30	1.00	0.90	13.77	
	Culverts						
	1st Cross Venkataswamappa Layout	1	4.30	1.80	1.10	8.51	
	2nd Cross Venkataswamappa Layout	1	6.00	1.80	1.10	11.88	
	7th Cross Road Gurudharshan Layout	1	6.30	1.80	1.10	12.47	
						431.48	
						418.95	

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

o	Description	No.	L	B	D	Qty	Unit
	Measurement Recorded on: 1/5/2022						
2	Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm** and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications						Cum
	Drain Bed Concrete						
	7th A Cross Gurudharshan Layout N/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	6.30	1.00	0.15	0.95	
	7th A Cross Gurudharshan Layout S/S						
		1	15.00	1.00	0.15	2.25	
		1	11.00	1.00	0.15	1.65	
		1	15.00	1.00	0.15	2.25	
		1	8.20	1.00	0.15	1.23	
		1	15.00	1.00	0.15	2.25	
		1	10.30	1.00	0.15	1.55	
	4th A Cross Gurudharshan Layout N/S	1	15.00	1.00	0.15	2.25	
		1	5.00	1.00	0.15	0.75	
		1	15.00	1.00	0.15	2.25	
		1	10.00	1.00	0.15	1.50	
		1	15.00	1.00	0.15	2.25	
		1	8.50	1.00	0.15	1.28	
		1	15.00	1.00	0.15	2.25	
		1	10.00	1.00	0.15	1.50	
	3rd Main Venkataswamappa Layout N/S	1	15.00	1.00	0.15	2.25	
		1	15.50	1.00	0.15	2.33	
		1	15.00	1.00	0.15	2.25	
		1	14.00	1.00	0.15	2.10	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	8.80	1.00	0.15	1.32	
	2nd Cross Opp Road						
	E/S	1	15.00	1.00	0.15	2.25	
		1	10.00	1.00	0.15	1.50	
	W/S						
		1	15.00	1.00	0.15	2.25	
		1	10.00	1.00	0.15	1.50	
	2nd Cross Opp Road						
	W/S	1	15.30	1.00	0.15	2.30	
	Culverts						
	1st Cross Venkataswamappa Layout	1	4.30	1.80	0.15	1.16	
	2nd Cross Venkataswamappa Layout	1	6.00	1.80	0.15	1.62	
	7th Cross Road Gurudharshan Layout	1	6.30	1.80	0.15	1.70	
						70.92	
						69.15	

Assistant Engineer
Ward No. 09

ASSISTANT EXECUTIVE ENGINEER Vidyaranyapura Sub Division Bruhath Bengaluru Mahanagara Palike

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl. No	Description	No.	L	B	D	Qty	Unit
	Measurement Recorded on: 2/5/2022						
3	Providing laying palin / reinforced cement concrete for side drains using M 20 nominal mix concrete with OPC at 300 kgs with 20 mm and down size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed well compacted for walls and bottom including cenmtering shuttering form work etc. complete as per approved drawing and design MORTH Specification No. 1500,1700,2200 Wall & Bottom thickness 15cm						Cum
	Bottom Concrete						
	7th A Cross Gurudharshan Layout N/S	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	6.30	0.90	0.15	0.85	
	7th A Cross Gurudharshan Layout S/S						
		1	15.00	0.90	0.15	2.03	
		1	11.00	0.90	0.15	1.49	
		1	15.00	0.90	0.15	2.03	
		1	8.20	0.90	0.15	1.11	
		1	15.00	0.90	0.15	2.03	
		1	10.30	0.90	0.15	1.39	
	4th A Cross Gurudharshan Layout N/S						
		1	15.00	0.90	0.15	2.03	
		1	5.00	0.90	0.15	0.68	
		1	15.00	0.90	0.15	2.03	
		1	10.00	0.90	0.15	1.35	
		1	15.00	0.90	0.15	2.03	
		1	8.50	0.90	0.15	1.15	
		1	15.00	0.90	0.15	2.03	
		1	10.00	0.90	0.15	1.35	
	3rd Main Venkataswamappa Layout N/S						
		1	15.00	0.90	0.15	2.03	
		1	15.50	0.90	0.15	2.09	
		1	15.00	0.90	0.15	2.03	
		1	14.00	0.90	0.15	1.89	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	8.80	0.90	0.15	1.19	
	2nd Cross Opp Road						
	E/S	1	15.00	0.90	0.15	2.03	
		1	10.00	0.90	0.15	1.35	
	W/S						
		1	15.00	0.90	0.15	2.03	
		1	10.00	0.90	0.15	1.35	
	2nd Cross Opp Road						
	W/S	1	15.30	0.90	0.15	2.07	
	Side Walls						
	7th A Cross Gurudharshan Layout N/S	2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	6.30	0.15	0.60	1.13	

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಬೃ.ಬೆ.ಮ.ಪಾ, ಬೆಂಗಳೂರು

ASSISTANT EXECUTIVE ENGINEER Vidyaranyapura Sub-Division Yeshwanthpur Bengaluru Mahanagara

No	Description	No.	L	B	D	Qty	Unit
	7th A Cross Gurudharshan Layout S/S						
		2	15.00	0.15	0.60	2.70	
		2	11.00	0.15	0.60	1.98	
		2	15.00	0.15	0.60	2.70	
		2	8.20	0.15	0.60	1.48	
		2	15.00	0.15	0.60	2.70	
		2	10.30	0.15	0.60	1.85	
	4th A Cross Gurudharshan Layout N/S						
		2	15.00	0.15	0.60	2.70	
		2	5.00	0.15	0.60	0.90	
		2	15.00	0.15	0.60	2.70	
		2	10.00	0.15	0.60	1.80	
		2	15.00	0.15	0.60	2.70	
		2	8.50	0.15	0.60	1.53	
		2	15.00	0.15	0.60	2.70	
		1	10.00	0.15	0.60	0.90	
	3rd Main Venkataswamappa Layout N/S						
		2	15.00	0.15	0.60	2.70	
		2	15.50	0.15	0.50	2.33	
		2	15.00	0.15	0.50	2.25	
		2	14.00	0.15	0.50	2.10	
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	8.80	0.15	0.50	1.32	
	2nd Cross Opp Road E/S	2	15.00	0.15	0.60	2.70	
		2	10.00	0.15	0.60	1.80	
	W/S						
		2	15.00	0.15	0.60	2.70	
		2	10.00	0.15	0.60	1.80	
	2nd Cross Opp Road W/S	2	15.30	0.15	0.60	2.75	
	Covering Slab						
		1	15.50	0.75	0.10	1.16	
						136.83	
						136.71	

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ, ಬೆಂಗಳೂರು

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidayranyapura Sub Division

Sl. No	Description	No.	L	B	D	Qty	Unit
	Measurement Recorded on: 2/5/2022						
4	Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500**						Tonne
	U' Shape Drains	No	L	Mtrs	Kg/m	Kgs	
	7th A Cross Gurudharshan Layout N/S 10 mm dia	1070	1.80	1926.00	0.62	1194.12	
	8 mm dia	14	96.30	1348.20	0.39	525.80	
	7th A Cross Gurudharshan Layout S/S 10 mm dia	289	1.80	520.20	0.62	322.52	
	8 mm dia	14	26.00	364.00	0.39	141.96	
	10 mm dia	258	1.80	464.40	0.62	287.93	
	8 mm dia	14	23.20	324.80	0.39	126.67	
	10 mm dia	282	1.80	507.60	0.62	314.71	
	8 mm dia	14	25.30	354.20	0.39	138.14	
	4th A Cross Gurudharshan Layout N/S 10 mm dia	223	1.80	401.40	0.62	248.87	
	8 mm dia	14	20.00	280.00	0.39	109.20	
	10 mm dia	278	1.90	528.20	0.62	327.48	
	8 mm dia	14	25.00	350.00	0.39	136.50	
	10 mm dia	258	1.90	490.20	0.62	303.92	
	8 mm dia	14	23.20	324.80	0.39	126.67	
	10 mm dia	284	1.90	539.60	0.62	334.55	
	8 mm dia	14	25.50	357.00	0.39	139.23	
	3rd Main Venkataswamappa Layout N/S						
	10 mm dia	339	1.90	644.10	0.62	399.34	
	8 mm dia	14	30.50	427.00	0.39	166.53	
	10 mm dia	323	1.90	613.70	0.62	380.49	
	8 mm dia	14	29.00	406.00	0.39	158.34	
	10 mm dia	598	1.90	1136.20	0.62	704.44	
	8 mm dia	14	53.80	753.20	0.39	293.75	
	2nd Cross Opp						
	10 mm dia	278	1.90	528.20	0.62	327.48	
	8 mm dia	14	25.00	350.00	0.39	136.50	
	10 mm dia	278	1.90	528.20	0.62	327.48	
	8 mm dia	14	25.00	350.00	0.39	136.50	
	1st Cross Opp						
	10 mm dia	171	1.90	324.90	0.62	201.44	
	8 mm dia	14	15.30	214.20	0.39	83.54	
						8094.12	Kgs
			Total Qty =			8.09	
			Qty Limited to =			8.07	Tonne

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangaluru Mahanagara

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidayranyapura Sub Division

No	Description	No.	L	B	D	Qty	Unit
	Measurement Recorded on: 20/5/2022.						
5	Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6, edges of stones** chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.						Cum
	Culverts 1st Course						
	1st Cross Venkataswamappa Layout	2	4.30	0.60	0.45	2.32	
	2nd Cross Venkataswamappa Layout	2	6.00	0.60	0.45	3.24	
	7th Cross Road Gurudharshan Layout	2	6.30	0.60	0.45	3.40	
	2nd Course						
	1st Cross Venkataswamappa Layout	2	4.30	0.45	0.45	1.74	
	2nd Cross Venkataswamappa Layout	2	6.00	0.45	0.45	2.43	
	7th Cross Road Gurudharshan Layout	2	6.30	0.45	0.45	2.55	
						15.69	
						14.18	

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub-Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike